PATENT COOPERATION TREATY

INTERNATIONAL SEARCHING AUTH	ORITY					
To: GEOFFREY L. MELNICK G.E. EHRLICH (1995) LTD. 11 MENACHEM BEGIN STREET RAMAT-GAN, 52 524 ISRAEL		PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY				
		Date of mailing (day/month/year)	19 SEP 2006			
Applicant's or agent's file reference		FOR FURTHER ACTION See paragraph 2 below				
29153						
International application No.	International filing date		Priority date (day/month/year)			
PCT/IL05/00197 International Patent Classification (IPC)	17 February 2005 (17.0)	2.2005)	17 February 2004 (17.02.2004)			
		•				
IPC: A61K 31/715(2006.01);A01N USPC: 514/53,54,23;536/17.5,21,55.2		.5/00(2000.01)				
Applicant						
YEDA RESEARCH AND DEVELOPM	ENT CO. LTD.	· · · · · · · · · · · · · · · · · · ·	·			
1. This opinion contains indications rela	ating to the following item	ns:				
Box No. I Basis of the	opinion					
Box No. II Priority		•	·			
Box No. III Non-establis	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
Box No. IV Lack of unit	y of invention					
	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
Box No. VI Certain docu	Box No. VI Certain documents cited					
Box No. VII Certain defe	cts in the international app	plication	·			
Box No. VIII Certain obse	rvations on the internation	nal application	•			
2. FURTHER ACTION						
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.						
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.						
3. For further details, see notes to Form	PCT/ISA/220.	•				
Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents	opinion		Authorized officer Devesh Khare A. Roberto for			
P.O. Box 1450 Alexandria, Virginia 22313-1450	05 September 20	006 (05.09.2006)	Telephone No. (571) 272-1600			

Facsimile No. (571) 273-3201
Form PCT/ISA/237 (cover sheet) (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/IL05/00197

BOX N	lo. I Basis of this opinion						
							• •
1. With	regard to the language, this opinio						
\boxtimes	the international application in the language in which it was filed						
	a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).						
2. With claim	regard to any nucleotide and/or ed invention, this opinion has been	r amino acid so n established on	equence disclos the basis of:	ed in the in	ternational ap	plication and nec	cessary to the
a.	type of material			_			
	a sequence listing				-		
	table(s) related to the seque	ence listing			•		· .
b.	format of material						•
	on paper						
	in electronic form						
			•				
C.	time of filing/furnishing						
	contained in the internation	nal application as	s filed.				
	filed together with the inter	rnational applica	tion in electroni	c form.			
ě	furnished subsequently to the	is Authority for	the purposes of	search.			
					*.		
, []	To addition to decree	•	_		•		,
,. <u> </u>	In addition, in the case that more filed or furnished, the required sta the application as filed or does no	atements that the	information in	the subseque	ent or addition	al copies is identi	eto has been cal to that in
. Additi	onal comments:				,		
				•		•	
	5.	•	•				
						•	
			•				
•							
				•			
	•						
m PCT	ISA/237(Box No. I) (April 2005)	·					
[- 1/.	13/1/23/1003 (YO. 1) (ANM) /(195)						

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/IL05/00197

_ I _ '	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be
i	industrially applicable have not been examined in respect of:
	the entire international application
	Claims Nos. <u>15-21</u>
1	because:
	the said international application, or the said claim Nos relate to the following subject matter which does not require an international search (specify):
1.	
-} r	_
	the description, claims or drawings (indicate particular elements below) or said claims Nos are so unclear that no meaningful opinion could be formed (specify):
	the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed (specify):
İ	be formed (specify):
Þ	no international search report has been established for said claims Nos. 15-21
. [a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit:
	furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.
	furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.
	pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13ter.1(a) or (b).
	a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form and manner acceptable to it.
	the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions. See Supplemental Box for further details.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IL05/00197

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
1. Statement							
Novelty (N)	Claims Claims	1-14 and 22-54 NONE	YES				
Inventive step (IS)	Claims Claims	NONE 1-14 and 22-54	YES				
Industrial applicability (IA)	Claims Claims	1-14 and 22-54 NONE	YES NO				

2. Citations and explanations:

Claims 1-14 and 22-54 lack an inventive step under PCT Article 33(3) as being obvious over US 4,882,318('318) and US 6,750,207 ('207).

The '318 patent teaches heparin and its derivatives useful in the treatment of tumor by inhibiting heparanase activity and thereby decreasing the metastasis of the tumor especially lung cancer (abstract and col.1-2). The '318 patent discloses the dosage of heparin and its derivatives between 50-500 ug/kg/day (claim 1).

The '207 patent teaches pharmaceutical preparations comprising a low molecular weight heparin for the prevention and/or treatment of pathological processes involving the induction of active TNF-a secretion (col.8, lines 64-67). The disaccharide represented by the instant claims is disclosed(col.10, lines 40-45). Various methods of treatment using said disaccharide or heparin is disclosed (col.12).

Claims 1-14 and 22-54 have industrial applicability as defined by PCT Article 33(4).

Form PCT/ISA/237 (Box No. V) (April 2005)